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	The Files 13 September 1957	
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	Trip Report - Trip Corder 5 & 0	25X1A5a1
	1. A visit was made to the	25X1A5a1
25X1A	on & September 1957, to inspect and discuss the progress of Task 5 and 6 of contract The following people were contacted:	25X1A
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	2. Most of the visit was devoted to the consideration of Task 5, Power Sources. The final report for Task 2, Power Sources Study, for FY 57 is to be forwarded by the end of September. described their work quite thoroughly. The results obtained in the study of thermoelectric generators were impressive. However, there is little progress in the development of a "dirt" battery and in the field of gas-activated batteries.	25X1A5a1 25X1A5a1
	3. Recent experiments with the sine antimonide-constantin thermocouples have resulted in efficiencies as high as 3.65. Over a hundred hour period, efficiencies over 3.25 were obtained. In a 1000 hour periodiciencies were never under 1.55 (see Attachment 2). The couples use in these experiments were bunded in an oxygen-free atmosphere. It was pointed out that the material, i.e. proportions, and size of the thermocouples is not particularly important. The main problem is the difficular bonding the materials together securely, especially at the hot junct The acquisition of a personnel in Europe is being considered. An efficiency of 3.5% is claimed the use of "carbon" as one of the junctions.	1ty 25X1A5a1
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25X1A5a1 5. A short conference was held with project engineer for the Radio Circuits Study, Tast 5, and his engineers. The 25X1A5a1 complete tabe version of the RS-11 equipment was shown to 25X1A5a1 vishes to obtain copies of these maits and their evaluation reports to ascertain performance requirements which have to be met in their development of a transmitter and 25X1A5a1 receiver using unconventional circuits. is to be furnished the entenna and antenna impedance information when it becomes available. A few questions were enswered as to crystal frequency, sensitivity end selective calling features. The development of a definite receiver 25X1A5a1 and circuits were mentioned but no block diagrams have been prepared. It is hoped that more progress will be made and that more concrete information will be available the next inspection period. 25X1A5a1

the component study and inquired whether our equipments (RS-11A, RR-11AA etc.) and evaluation reports could be made available. The under- 25X1A5a1 signed expressed the opinion that the company's final report on Task 1 did not indicate that any of these components were ready for circuit functioning due to temperature or other unsuitable characteristics. Under Task 5 the contractor is to design a transmitter and receiver using these components. The undersigned requested that the company summarize component characteristics in their progress reports as factual data to include limitations and recommendations on which we might base an opinion. With respect to supplying CFE equipment and evaluation reports.

25X1A5a1 discussed with Headquarters.

7. With respect to the Power Scurces Study the undersigned expressed the opinion that the work appeared to be divided between thermocouple development 85% and bettery studies 15%. The company took exception and felt that the work was closer to thermocouple development 60% and bettery studies 40%. (This is not substantiated by their progress reporting or personnel assignment).

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